NEW

RADIO FREQUENCY SYSTEMS

# CELLFLEX® Factory-Fit Premium & Standard Low VSWR Coaxial Cable Jumper Assemblies

## *for High-Performance Telecommunication Systems*



Radio Frequency Systems' new CELLFLEX® Factory-Fit Jumpers feature a unique soldered-on connector for today's high-performance wireless systems. The connector design and manufacturing process has been optimized to produce premium VSWR and IM levels for PCS systems.

Our Meriden, Connecticut facility produces and stocks 3-, 6-, 8-, and 10-foot lengths, and can deliver custom lengths with specific VSWR or IM requirements.

- **100% VSWR and interface dimension-tested**
- **Premium VSWR**
  *1.065:1 (30.0 dB) @ 806-960 & 1770-1990 MHz*
  *Preferred for VSWR- or DTF-sensitive systems*
- **Standard VSWR**
  *1.105:1 (26.0 dB) @ 806-960 & 1770-1990 MHz*
  *Meets most performance standards for general system requirements.*
- **Superior mechanical and electrical performance using soldered contacts**
- **Low IM (typ. -155 dBc or better)**
- **Totally waterproof to IP68 - mated or unmated**
- **Small bend radius**
- **Includes heavy-duty strain relief sealing boots**
- **Jumper label is serialized for traceablility**
- **Available with 1/2" standard LCF12 or 1/2"super-flexible SCF12 coaxial cable**
- **Available with standard "J" or flame-retardant "JFN" jacket types**
- **Available with UL listed CATVR flame-retardant jacket**

### VSWR (max values, typical)

| Part number | 410-470 MHz | 806-960 MHz | 1850-1990 MHz | 1700-2200 MHz |
|---|---|---|---|---|
| 815396-9xxP (LCF) | -40 dB | -35 dB | -35 dB | -32 dB |
| 826032-9xxP (SCF) | -35 dB | -32 dB | -32 dB | -30 dB |

# CELLFLEX® Factory-Fit Premium & Standard Low VSWR Coaxial Cable Jumper Assemblies

## Ordering Information

| | | Premium VSWR | | Standard VSWR | |
|---|---|---|---|---|---|
| **Standard 1/2" Cable, LCF12-50J** | | | | | |
| **Connectors** | **Length, ft.** | **Part No.** | **Model No.** | **Part No.** | **Model No.** |
| Straight 7-16 DIN males | 3 | 815396-903P | 7M7ML12-030FFP | 815396-903 | 7M7ML12-030FFS |
| Straight 7-16 DIN males | 6 | 815396-906P | 7M7ML12-060FFP | 815396-906 | 7M7ML12-060FFS |
| Straight 7-16 DIN males | 8 | 815396-908P | 7M7ML12-080FFP | 815396-908 | 7M7ML12-080FFS |
| Straight 7-16 DIN males | 10 | 815396-910P | 7M7ML12-100FFP | 815396-910 | 7M7ML12-100FFS |
| Straight 7-16 DIN male/N male | 3 | 815414-903P | 7MNML12-030FFP | 815414-903 | 7MNML12-030FFS |
| Straight 7-16 DIN male/N male | 6 | 815414-906P | 7MNML12-060FFP | 815414-906 | 7MNML12-060FFS |
| Straight 7-16 DIN male/N male | 8 | 815414-908P | 7MNML12-080FFP | 815414-908 | 7MNML12-080FFS |
| Straight 7-16 DIN male/N male | 10 | 815414-910P | 7MNML12-100FFP | 815414-910 | 7MNML12-100FFS |
| Straight N males | 3 | 815372-903P | NMNML12-030FFP | 815372-903 | NMNML12-030FFS |
| Straight N males | 6 | 815372-906P | NMNML12-060FFP | 815372-906 | NMNML12-060FFS |
| Straight N males | 8 | 815372-908P | NMNML12-080FFP | 815372-908 | NMNML12-080FFS |
| Straight N males | 10 | 815372-910P | NMNML12-100FFP | 815372-910 | NMNML12-100FFS |
| **Superflexible 1/2" Cable, SCF12-50J** | | | | | |
| **Connectors** | **Length, ft.** | **Part No.** | **Model No.** | **Part No.** | **Model No.** |
| Straight 7-16 DIN males | 3 | 826032-903P | 7M7MS12-030FFP | 826032-903 | 7M7MS12-030FFS |
| Straight 7-16 DIN males | 6 | 826032-906P | 7M7MS12-060FFP | 826032-906 | 7M7MS12-060FFS |
| Straight 7-16 DIN males | 8 | 826032-908P | 7M7MS12-080FFP | 826032-908 | 7M7MS12-080FFS |
| Straight 7-16 DIN males | 10 | 826032-910P | 7M7MS12-100FFP | 826032-910 | 7M7MS12-100FFS |

## Qualification Test Summary

| Test Name | Qualifying Specification | ReferenceTest Procedure | Criteria Values | Verification |
|---|---|---|---|---|
| 1. Cable Connector/ Cable Pull-off | IEC60169-4 CECC22190 | IEC60169-1 Section 15.4.3 | 112 lb-f @ 1 minute | IM, VSWR and Visual |
| 2. Cable Bending | IEC60169-4 | IEC60169-1 15.4.4 | From 12 inches away; 10 times, 90° | IM, VSWR and Visual. |
| 3. Cable Torsion | IEC60169-4 CECC22190 | IEC60169-1 15.4.5 | 22 in-lb (2.5 Nm), 60 seconds | IM and Visual |
| 4. Coupling Nut Proof Torque | CECC22190 | CECC22000 4.5.4 | 308 in-lb (35Nm), 3 times | Visual |
| 5. Continuous Water Submerge | EN60529 IP68 | RFS P-B605-A | 18°C, 15PSI in water, 1 hr. | Insulation Resistance (500VDC>20Gohm) |
| 6. Temperature Range | IEC60169-4 | | -40°/85°C, 5 times 1 hrs @ extremes | Insulation Resistance (500VDC>20Gohm) |
| 7. Environmental Seal | IEC60169-4 | 5 PSI in water | 1/85/20°C for 1 hr 1 time | Insulation Resistance (500VDC>20Gohm) |
| 8. Corrosion Salt Spray | IEC60169-4 MIL-STD-202 | ASTM B117, Method 101, Condition A | 95% RH, 5% NaCl, 35°C, 96 hrs | Visual |
| 9. Vibration | MIL-STD-202 | Method 204, Test Condition B | 10-2000 Hz, 15g, 12 cycles @ 20 min. | IM, VSWR and Visual |
| 10. Shock | MIL-STD-202 | Method 213, Test Condition I | 100g, sawtooth, 6 ms, 18 times | IM, VSWR and Visual |

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